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09/854,362

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Application Number

TRANSMITTAL FORM  SEP 0 9 2005  (to be used for all correspondence after initial state)											
			Filing Date		May 15, 2001						
			First Named Inventor		FRANK, David G.						
			Art Unit		1745						
			Examiner Name		MARTIN, Angela J.						
Total Number of Pages in This Subi	nission		Attorney Docket No	umber	9351-46/R						
ENCLOSURES (check all that apply)											
Fee Transmittal Form		Drawing(s)			After Allowance Communication to TC						
_					Appeal Communication to Board						
Fee Attached			Licensing-related Papers			of Appeals and Interferences					
Amendment / Reply	Pe	etition			Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)						
After Final			Convert to a al Application		Proprietary Information						
Affidavits/declaration(s)			Attorney, Revocation f Correspondence Add	ress	Status Letter						
Extension of Time Request	□т	erminal [	Disclaimer	ļ	Other Enclosure(s) (please identify below):						
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Reply to Missing Parts/ Incomplete Application		SEP 1 5 2005  of Correction									
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under 37 CFR1.52 or 1.53											
	SIGNATUR	E OF	APPLICANT, ATTO	RNEY, O	R AGENT						
Firm											
Signature United			M								
Printed Name Tony R. C			Orsi								
Date	Septer	September 8, 2005 Reg. No.			55,831						
	CER	TIFICA	TE OF TRANSMISS	ION/MAI	LING						
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.											
Signature											
Typed or printed name					Date						

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

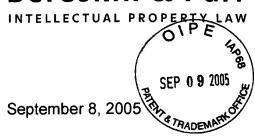
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FEE TRANSMITTAL				Application Number 09/854,								
				Filing Date		May 15, 2001						
For FY 2005				First Named I	nventor	FRANK, David G.						
Applicant claims small entity status. See 37 CFR 1.27				Examiner Nan	ne	MARTIN, Angela J.						
				Art Unit		1745						
TOTAL AMOUN	T OF PAYMENT	(\$)	100.00	Attorney Dock	et No.	9351-46/R						
METHOD OF PAYMENT (check all that apply)												
Check Credit Card Money Order None Other (please identify):												
Deposit Account Deposit Account Number: 022095 Deposit Account Name: Bereskin & Parr												
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)												
Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee												
Charge any additional fee(s) or underpayments of fee(s)												
under 37 CFR 1.16 and 1.17  WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card												
Information and authorization on PTO-2038.												
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If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).												
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4. OTHER FEE(S)  Non-English Specification, \$130 fee (no small entity discount)												
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Signature	bylly			Registration No	55,831		Telephone (4	16) 364-7	7311			
(Attorney/Agent)							•	ember 8, 2005				
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This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

### Bereskin & Parr



Tony R. Orsi B.A.Sc., M.A.Sc. (Elec. Eng.) 416 957 1603 torsi@bereskinparr.com

Your Reference: 6,852,439 B2 Our Reference: 9351-46/R

#### REQUEST FOR CERTIFICATE OF **CORRECTION UNDER 35 U.S.C. 255 AND 37 C.F.R. 1.323**

Commissioner for Patents P.O. Box 1450 Alexandria, VA U.S.A. 22313

Attn: Certificate of Correction Branch

Dear Sir:

United States Patent Application No. 09/854,362

United States Patent No. 6,852,439 B2

For: APPARATUS FOR AND METHOD OF FORMING SEALS IN FUEL CELLS

AND FUEL CELL STACKS

Issued: February 8, 2005

Filed: May 15, 2001

Applicant: FRANK, David G. et al. Examiner: MARTIN, Angela J.

In accordance with the provisions of 35 U.S.C. 255 and 37 C.F.R. 1.323, please find attached a Certificate of Correction form.

The Applicant respectfully submits that the corrections are of a clerical nature and do not constitute new matter or require examination. The Applicant further submits that only a portion of the errors were made by the Applicant with the majority being made by the USPTO. In particular, the certificate requests that:

- 1. In the Background Of The Invention, column 2, line 19, the paragraph beginning "For the coolant, this commonly flows across the back of be deleted."
- 2. In the Background Of The Invention, column 2, line 56, the first comma -,- be changed to a period -.-, so that the line reads "additional 31 seals. Thus, a 30 cell stack would require a"

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- 3. In the Background Of The Invention, column 3, line 6, the word –or- be changed to –for- so that the line reads "opportunities for mistakes to be made. Reference to a resil-"
- 4. In the Summary Of The Invention, column 5, line 54, the word –polysilioxane- be changed to –polysiloxane- so that the line reads "polysiloxane polymer with either terminal or pendant unsat-"
- 5. In the Summary Of The Invention, column 5, line 55, the equation "--CH==CH<sub>2</sub>" be changed to "-CH=CH<sub>2</sub>" so that the line reads "urated organic groups -CH=CH<sub>2</sub>. The polysiloxane can be"
- 6. In the Summary Of The Invention, column 7, line 48, the colon -:- be changed to a semi-colon -;-, so that the line reads "assembly; and"
- 7. In the Summary Of The Invention, column 8, line 7, the words –FIGS. 1b-e- be changed to –FIGS. 1b-1e- so that the line reads "FIGS. 1b-1e show variant seal arrangements for use in the"
- 8. In the Description of the Preferred Embodiment section, column 8, line 53, the period -.- be changed to a comma -,-, so that the line reads "In general, FIGS. 1a-3 are intended to indicate the essential"
- 9. In the Description of the Preferred Embodiment section, column 9, line 59, the comma -,- be deleted, so that the line reads "corresponding to plates 22 and 24 of FIG. 1a. The MEA is"
- 10. In the Description of the Preferred Embodiment section, column 10, line 14, the word –the- be inserted after –of-, so that the line reads "seals 52 and the exterior of the stack where the seal 54 is"
- 11. In the Description of the Preferred Embodiment section, column 11, line 10, the word –that- be inserted after –materials-, so that the line reads "materials that are used in fuel cells. For example, materials could"
- 12. In the Description of the Preferred Embodiment section, column 11, line 46, the word –is- be inserted before –also-, so that the line reads "is also anticipated that the invention could use a seal material"
- 13. In the Description of the Preferred Embodiment section, column 12, line 25, the word –parts- be changed to –ports-, so that the line reads "ports for supply of the necessary fluids. Air connection ports"

- 14. In the Description of the Preferred Embodiment section, column 12, line 28, the word –riot- be changed to –not-, so that the line reads "indicated at 110, 111. Although not shown, it will be"
- 15. In the Description of the Preferred Embodiment section, column 12, line 37, the word –as- be inserted before –necessary-, so that the line reads "of the fuel cell stack 100 to various equipment as necessary"
- 16. In the Description of the Preferred Embodiment section, column 12, line 41, the word –are- be changed to –is-, so that the line reads "adjacent the insulators, in known manner, there is an anode"
- 17. In the Description of the Preferred Embodiment section, column 12, line 67, the period -.- be deleted, so that the line reads "show configurations with respectively 20 and 100 indi-"
- 18. In the Description of the Preferred Embodiment section, column 13, line 10, the period -.- be changed to a comma -,-, so that the line reads "anode and cathode flow field plates 120, 130, indicates their"
- 19. In the Description of the Preferred Embodiment section, column 13, line 11, a period -.- be inserted after –MEA-, so that the line reads "orientation with respect to the MEA. Thus, "front" indicates"
- 20. In the Description of the Preferred Embodiment section, column 13, line 35, the word —a- be inserted before —seal-, so that the line reads "to accept and to define a flow of a sealant that forms a seal"
- 21. In the Description of the Preferred Embodiment section, column 13, line 52, the number--162- be-changed to -152- so that the line reads "groove segments 152 provided around three sides, each"
- 22. In the Description of the Preferred Embodiment section, column 13, line 56, the period -.- be changed to a comma -,-, so that the line reads "has a width of 0.200". For the groove segments 152, 154,"
- 23. In the Description of the Preferred Embodiment section, column 14, line 15, the word –air- be deleted, so that the line reads "Around the aperture 136, there are groove segments 164"
- 24. In the Description of the Preferred Embodiment section, column 15, line 22, the word –front- be deleted, and the word –cathode- be changed to –anode-, so that the line reads "rear face of the anode flow field plate 120."
- 25. In the Description of the Preferred Embodiment section, column 15, line 24, the word –anode- be changed to –cathode-, so that the line reads "nate the different groove segments of the anode and cathode"

- 26. In the Description of the Preferred Embodiment section, column 17, line 28, a period -.- be inserted at the end of the sentence, after –detached-, so that the line reads "seal material supply is detached."
- 27. In the Description of the Preferred Embodiment section, column 18, line 5, the letter -s- be changed to the word -is-, so that the line reads "itself. To form a complete fuel cell assembly, it is simply a"
- 28. In the Description of the Preferred Embodiment section, column 18, line 6, the word –MEUs- be changed to –MEU's-, so that the line reads "matter of selecting the desired number of MEU's, clamping"
- 29. In the Description of the Preferred Embodiment section, column 18, line 12, the word —end- be changed to —and-, so that the line reads "coolant ports and channels within the entire assembly. This"
- 30. In the Description of the Preferred Embodiment section, column 18, line 14, the word –MFU- be changed to –MEU-, so that the line reads "from a single basic unit, identified as an MEU. It is noted,"
- 31. In the Description of the Preferred Embodiment section, column 18, line 42, a period --- be inserted after —uniform-, so that the line reads "seal material is uniform. This may not occur in practice. For"
- 32. In the Description of the Preferred Embodiment section, column 18, lines 44-46, the words –lead to distortions in flow rates of the seal material on the two sides of the MEA, which will- be deleted, so that the lines read "sections on either side will distort. This will only cause the distortion to increase. Thus,"
- 33. In the Description of the Preferred Embodiment section, column 18, line 50, the words "1i-1e" be changed to "1b-1e", so that the line reads "also anticipates variants, shown in FIGS. 1b-1e. These are"
- 34. In the Description of the Preferred Embodiment section, column 19, line 33, a period -.- be inserted after -31e-, so that the line reads "peripheries as indicated at 31e. The grooves 28e, 30e are then"
- 35. In the Description of the Preferred Embodiment section, column 20, line 5, the word –from- be changed to –form-, so that the line reads "form one end of the stack 100. As such, it may take some"
- 36. In the Description of the Preferred Embodiment section, column 21, line 25, the words —organo siloxane- become one word —organosiloxane-, so that the line reads "elastomeric seal material, which is an organosiloxane"

- 37. In the Description of the Preferred Embodiment section, column 21, line 46, a period -.- be inserted after –ingredient-, so that the line reads "million parts by weight of ingredient."
- 38. In the Description of the Preferred Embodiment section, column 21, line 67, the word –carbons- be changed to –carbon-, so that the line reads "include alkyls comprising one to 20 carbon atoms such as"
- 39. In the Description of the Preferred Embodiment section, column 22, line 49, the word –trichiorosilane- be changed to –trichlorosilane-, so that the line reads "chloride or trichlorosilane as taught by Spialter et al. U.S."
- 40. In the Description of the Preferred Embodiment section, column 23, line 20, the word –methylotrifluoropropyl- be changed to –methyltrifluoropropyl-, so that the line reads "the mole percent of methyltrifluoropropyl is greater than"
- 41. In the Description of the Preferred Embodiment section, column 23, line 28, the words -platinum-group- be changed to -platinum group-, so that the line reads "The platinum group catalyst, is a catalyst for curing the"
- 42. In the Description of the Preferred Embodiment section, column 23, line 37, the word -part- be changed to -parts-, so that the line reads "parts, the curing reaction may not proceed sufficiently; if the"
- 43. In the Description of the Preferred Embodiment section, column 23, line 56, brackets be inserted around the letter –F-, so that the line reads "Ingredient (F) consists of a suitable organic peroxide curing"
- 44. In the Description of the Preferred Embodiment section, column 24, line 3, the word –sufficient- be deleted, so that the line reads "Optionally an inhibitor to allow the composition"
- 45. In the Description of the Preferred Embodiment section, column 24, line 5, the word –As- be changed to –as-, so that the line reads "be necessary, as exemplified by alkyne alcohols such as"
- 46. In the Description of the Preferred Embodiment section, column 24, line 31, the word —metric- be changed to —meric- and a comma -,- be inserted after material-, so that the line reads "meric seal material, will be explained in more detail with"
- 47. In the Description of the Preferred Embodiment section, column 24, line 55, the first instance of the word –an- be changed to –a-, so that the line reads "has a viscosity of 41 cp; 40 parts quartz silica with an"

- 48. In the Description of the Preferred Embodiment section, column 25, line 13, the word –dimethylpolyiloxane- be changed to –dimethylpolysiloxane-, so that the line reads "above); 56 parts dimethylpolysiloxane that is dimethylvinyl-"
- 49. In the Description of the Preferred Embodiment section, column 25, line 23, the degrees symbol -°- be inserted after -23-, so that the line reads "128,000 cp at 23° C."
- 50. In the Description of the Preferred Embodiment section, column 25, line 36, the word –dimethylpolyiloxane- be changed to –dimethylpolysiloxane-, so that the line reads "above); 55 parts dimethylpolysiloxane that is dimethylvinyl-"
- 51. In the Description of the Preferred Embodiment section, column 26, line 32, a comma -,- be inserted after –GDM-, so that the line reads "and GDM, making sure that the apertures for flowing seal"
- 52. In the Description of the Preferred Embodiment section, column 26, line 46, the word –Into- be changed to –into-, so that the line reads "extend to screw into the anode end plate 102; 13), tighten the"
- 53. In the Description of the Preferred Embodiment section, column 29, line 1, the word –polydimethylsiloxaxane- be changed to –polydimethylsiloxane-, so that the line reads "100 parts of a polydimethylsiloxane which is dimethylvi-"
- 54. In the Description of the Preferred Embodiment section, column 29, line 2, the word –methyltrifluoropropl- be changed to –methyltrifluoropropyl-, so that the line reads "nylsiloxy terminated, is 40 mole % methyltrifluoropropyl,"
- 55. In the Description of the Preferred Embodiment section, column 29, line 26, the word –Trifrluoropropylmethyl- be changed to –Trifluoropropylmethyl-, so that the line reads "110.0 Dimethyl, Trifluoropropylmethyl Siloxane, Dimethylvinylsiloxy-"
- 56. In the Description of the Preferred Embodiment section, column 29, line 40, the word –and- be added before the word –were-, so that the line reads "treated with 6.4 parts hexamethyldisilazane and were blended"
- 57. In the Description of the Preferred Embodiment section, column 29, line 44, the word –dimethylvinylsiloxy- be changed to –dimethylsiloxy-, so that the line reads "polydimethylsiloxane which is dimethylsiloxy"
- 58. In the Description of the Preferred Embodiment section, column 29, line 52, the words –or composition- be deleted, so that the line reads "until homogeneity. The final material was a"

- 59. In the Description of the Preferred Embodiment section, column 29, line 54, the number -22- be changed to -225-, so that the line reads "orifice at a rate of 225 g/min under 90 psig pressure."
- 60. In the Description of the Preferred Embodiment section, column 30, line 27, the word –Alter- be changed to –After-, so that the line reads "for the seal materials listed previously. After 1 month of"
- 61. In the Description of the Preferred Embodiment section, column 31, line 25, the number -38- be changed to -3.8-, so that the line reads "had a viscosity of 1500 cst; 3.8 parts of dimethyl,"
- 62. In the Description of the Preferred Embodiment section, column 31, line 27, the word –arid- be changed to –and-, so that the line reads "atom-bonded hydrogen atoms and a viscosity of 25 cp; and"
- 63. In the Claims section, column 32, line 56, claim 9, the word —elastrometric- be changed to —elastomeric-, so that the line reads "grooves for the elastomeric seal material that fills the"
- 64. In the Claims section, column 34, line 13, claim 19, the word –aperture- be changed to –apertures-, so that the line reads "each element includes at least two connection apertures and"
- 65. In the Claims section, column 34, line 40, claim 23, the words –at least one groove- should begin on a new line, so that lines 40 and 41 are "a plurality of separate elements; at least one groove network extending through the electrochemical cell"

The government fee of \$100.00 is included in our cheque no. 7692. Please charge any deficiency or credit any overpayment to our deposit account no. 02-2095

Respectfully submitted,

Tony R. Orsi

Registration No. 55,831

/cem Encl.

PATENT NO: 6,852,439 B2

Page <u>1</u> of <u>6</u>

APPLICATION NO.: 09/854,362 ISSUE DATE: February 8, 2005

INVENTOR(S): FRANK, David G. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the Background Of The Invention, column 2, line 19, the paragraph beginning "For the coolant, this commonly flows across the back of has been deleted.

In the Background Of The Invention, column 2, line 56, the first comma -,- has been changed to a period -.-, so that the line reads "additional 31 seals. Thus, a 30 cell stack would require a"

In the Background Of The Invention, column 3, line 6, the word -or- has been changed to -for- so that the line reads "opportunities for mistakes to be made. Reference to a resil-

In the Summary Of The Invention, column 5, line 54, the word -polysilioxane- has been changed to -polysiloxaneso that the line reads "polysiloxane polymer with either terminal or pendant unsat-"

In the Summary Of The Invention, column 5, line 55, the equation "--CH==CH2" has been changed to "-CH=CH2" so that the line reads "urated organic groups -CH=CH2. The polysiloxane can be"

In the Summary Of The Invention, column 7, line 48, the colon -:- has been changed to a semi-colon -;-, so that the line reads "assembly; and"

In the Summary Of The Invention, column 8, line 7, the words -FIGS. 1b-e- have been changed to -FIGS. 1b-1eso that the line reads "FIGS. 1b-1e show variant seal arrangements for use in the"

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MAILING ADDRESS OF SENDER (Please do not use customer number below): Bereskin & Parr Box 401, 40 King Street West Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PATENT NO: 6,852,439 B2

Page 2 of 6

APPLICATION NO.: 09/854,362 ISSUE DATE: February 8, 2005

INVENTOR(S): FRANK, David G. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the Description of the Preferred Embodiment section, column 11, line 46, the word -is- has been inserted before -also-, so that the line reads "is also anticipated that the invention could use a seal material"

In the Description of the Preferred Embodiment section, column 12, line 25, the word -parts- has been changed to -ports-, so that the line reads "ports for supply of the necessary fluids. Air connection ports"

In the Description of the Preferred Embodiment section, column 12, line 28, the word -riot- has been changed to not-, so that the line reads "indicated at 110, 111. Although not shown, it will be"

In the Description of the Preferred Embodiment section, column 12, line 37, the word -as- has been inserted before --necessary-, so that the line reads "of the fuel cell stack 100 to various equipment as necessary"

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In the Description of the Preferred Embodiment section, column 13, line 11, a period -.- has been inserted after -MEA-, so that the line reads "orientation with respect to the MEA. Thus, "front" indicates"

In the Description of the Preferred Embodiment section, column 13, line 35, the word -a- has been inserted before -seal, so that the line reads "to accept and to define a flow of a sealant that forms a seal"

In the Description of the Preferred Embodiment section, column 13, line 52, the number -162- has been changed to -152- so that the line reads "groove segments 152 provided around three sides, each"

In the Description of the Preferred Embodiment section, column 13, line 56, the period -.- has been changed to a comma -,-, so that the line reads "has a width of 0.200". For the groove segments 152, 154,"

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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: 6,852,439 B2

Page <u>3</u> of <u>6</u>

APPLICATION NO.: 09/854,362 ISSUE DATE: February 8, 2005

INVENTOR(S): FRANK, David G. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the Description of the Preferred Embodiment section, column 14, line 15, the word –air- has been deleted, so that the line reads "Around the aperture 136, there are groove segments 164"

In the Description of the Preferred Embodiment section, column 15, line 22, the word –front- has been deleted, and the word –cathode- be changed to –anode-, so that the line reads "rear face of the anode flow field plate 120."

In the Description of the Preferred Embodiment section, column 15, line 24, the word –anode- has been changed to –cathode-, so that the line reads "nate the different groove segments of the anode and cathode"

In the Description of the Preferred Embodiment section, column 17, line 28, a period -.- has been inserted at the end of the sentence, after –detached-, so that the line reads "seal material supply is detached."

In the Description of the Preferred Embodiment section, column 18, line 5, the letter –s- has been changed to the word –is-, so that the line reads "itself. To form a complete fuel cell assembly, it is simply a"

In the Description of the Preferred Embodiment section, column 18, line 6, the word –MEUs- has been changed to –MEU's-, so that the line reads "matter of selecting the desired number of MEU's, clamping"

In the Description of the Preferred Embodiment section, column 18, line 12, the word –end- has been changed to – and-, so that the line reads "coolant ports and channels within the entire assembly. This"

In the Description of the Preferred Embodiment section, column 18, line 14, the word –MFU- has been changed to –MEU-, so that the line reads "from a single basic unit, identified as an MEU. It is noted,"

In the Description of the Preferred Embodiment section, column 18, line 42, a period -.- has been inserted after – uniform-, so that the line reads "seal material is uniform. This may not occur in practice. For"

In the Description of the Preferred Embodiment section, column 18, lines 44-46, the words —lead to distortions in flow rates of the seal material on the two sides of the MEA, which will- have been deleted, so that the lines read "sections on either side will distort. This will only cause the distortion to increase. Thus,"

In the Description of the Preferred Embodiment section, column 18, line 50, the words "1i-1e" have been changed to "1b-1e", so that the line reads "also anticipates variants, shown in FIGS. 1b-1e. These are"

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PATENT NO: 6,852,439 B2

Page <u>4</u> of <u>6</u>

APPLICATION NO.: 09/854,362 ISSUE DATE: February 8, 2005

INVENTOR(S): FRANK, David G. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the Description of the Preferred Embodiment section, column 19, line 33, a period -.- be inserted after -31e-, so that the line reads "peripheries as indicated at 31e. The grooves 28e, 30e are then"

In the Description of the Preferred Embodiment section, column 20, line 5, the word -from- has been changed to form-, so that the line reads "form one end of the stack 100. As such, it may take some"

In the Description of the Preferred Embodiment section, column 21, line 25, the words -organo siloxane- have become one word -organosiloxane-, so that the line reads "elastomeric seal material, which is an organosiloxane"

In the Description of the Preferred Embodiment section, column 21, line 46, a period -.- has been inserted after ingredient-, so that the line reads "million parts by weight of ingredient."

In the Description of the Preferred Embodiment section, column 21, line 67, the word -carbons- has been changed to -carbon-, so that the line reads "include alkyls comprising one to 20 carbon atoms such as"

In the Description of the Preferred Embodiment section, column 22, line 49, the word -trichiorosilane- has been changed to -trichlorosilane-, so that the line reads "chloride or trichlorosilane as taught by Spialter et al. U.S."

In the Description of the Preferred Embodiment section, column 23, line 20, the word -methylotrifluoropropyl- has been changed to -methyltrifluoropropyl-, so that the line reads "the mole percent of methyltrifluoropropyl is greater than"

In the Description of the Preferred Embodiment section, column 23, line 28, the words -platinum-group- have been changed to -platinum group-, so that the line reads "The platinum group catalyst, is a catalyst for curing the"

In the Description of the Preferred Embodiment section, column 23, line 37, the word -part- has been changed to parts-, so that the line reads "parts, the curing reaction may not proceed sufficiently; if the"

In the Description of the Preferred Embodiment section, column 23, line 56, brackets have been inserted around the letter -F-, so that the line reads "Ingredient (F) consists of a suitable organic peroxide curing"

In the Description of the Preferred Embodiment section, column 24, line 3, the word -sufficient- has been deleted, so that the line reads "Optionally an inhibitor to allow the composition"

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PATENT NO: 6,852,439 B2

Page <u>5</u> of <u>6</u>

APPLICATION NO.: 09/854,362 ISSUE DATE: February 8, 2005

INVENTOR(S): FRANK, David G. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the Description of the Preferred Embodiment section, column 24, line 5, the word –As- has been changed to – as-, so that the line reads "be necessary, as exemplified by alkyne alcohols such as"

In the Description of the Preferred Embodiment section, column 24, line 31, the word –metric- has been changed to –meric- and a comma -,- be inserted after –material-, so that the line reads "meric seal material, will be explained in more detail with"

In the Description of the Preferred Embodiment section, column 24, line 55, the first instance of the word –an- has been changed to –a-, so that the line reads "has a viscosity of 41 cp; 40 parts quartz silica with an"

In the Description of the Preferred Embodiment section, column 25, line 13, the word –dimethylpolyiloxane- has been changed to –dimethylpolysiloxane-, so that the line reads "above); 56 parts dimethylpolysiloxane that is dimethylvinyl-"

In the Description of the Preferred Embodiment section, column 25, line 23, the degrees symbol -- has been inserted after -23-, so that the line reads "128,000 cp at 23" C."

In the Description of the Preferred Embodiment section, column 25, line 36, the word –dimethylpolyiloxane- has been changed to –dimethylpolysiloxane-, so that the line reads "above); 55 parts dimethylpolysiloxane that is dimethylvinyl-"

In the Description of the Preferred Embodiment section, column 26, line 32, a comma -,- has been inserted after – GDM-, so that the line reads "and GDM, making sure that the apertures for flowing seal"

In the Description of the Preferred Embodiment section, column 26, line 46, the word —Into- has been changed to —into-, so that the line reads "extend to screw into the anode end plate 102; 13), tighten the"

In the Description of the Preferred Embodiment section, column 29, line 1, the word –polydimethylsiloxaxane- has been changed to –polydimethylsiloxane-, so that the line reads "100 parts of a polydimethylsiloxane which is dimethylvi-"

In the Description of the Preferred Embodiment section, column 29, line 2, the word –methyltrifluoropropl- has been changed to –methyltrifluoropropyl-, so that the line reads "nylsiloxy terminated, is 40 mole % methyltrifluoropropyl,"

In the Description of the Preferred Embodiment section, column 29, line 26, the word –Trifrluoropropylmethyl- has been changed to –Trifluoropropylmethyl-, so that the line reads "110.0 Dimethyl, Trifluoropropylmethyl Siloxane, Dimethylvinylsiloxy-"

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PATENT NO: 6,852,439 B2

Page <u>6</u> of <u>6</u>

APPLICATION NO.: 09/854,362 ISSUE DATE: February 8, 2005

INVENTOR(S): FRANK, David G. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the Description of the Preferred Embodiment section, column 29, line 40, the word -and- has been added before the word -were-, so that the line reads "treated with 6.4 parts hexamethyldisilazane and were blended"

In the Description of the Preferred Embodiment section, column 29, line 44, the word -dimethylvinylsiloxy- has been changed to -dimethylsiloxy-, so that the line reads "polydimethylsiloxane which is dimethylsiloxy"

In the Description of the Preferred Embodiment section, column 29, line 52, the words -or composition- have been deleted, so that the line reads "until homogeneity. The final material was a"

In the Description of the Preferred Embodiment section, column 29, line 54, the number -22- has been changed to -225-, so that the line reads "orifice at a rate of 225 g/min under 90 psig pressure."

In the Description of the Preferred Embodiment section, column 30, line 27, the word -Alter- has been changed to -After-, so that the line reads "for the seal materials listed previously. After 1 month of"

In the Description of the Preferred Embodiment section, column 31, line 25, the number -38- has been changed to -3.8-, so that the line reads "had a viscosity of 1500 cst; 3.8 parts of dimethyl,"

In the Description of the Preferred Embodiment section, column 31, line 27, the word -arid- has been changed to and-, so that the line reads "atom-bonded hydrogen atoms and a viscosity of 25 cp; and"

In the Claims section, column 32, line 56, claim 9, the word -elastrometric- has been changed to -elastomeric-, so that the line reads "grooves for the elastomeric seal material that fills the"

In the Claims section, column 34, line 13, claim 19, the word -aperture- has been changed to -apertures-, so that the line reads "each element includes at least two connection apertures and"

In the Claims section, column 34, line 40, claim 23, the words -at least one groove- now begins on a new line, so that lines 40 and 41 are "a plurality of separate elements; at least one groove network extending through the electrochemical cell"

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